

Presentation Overview

- Challenge: Lack of a sustainable context for building codes resulting in resistance to adoption and enforcement of building energy codes and greater resistance to alternative designs, materials, and methods
- Limitations for building departments
- Potential for green building programs to provide support for building departments
- Vision of potential solutions

Building Sustainabilityinto the Codes

A three phase program:

- Awareness building the need for change
- Capacity building enabling the change
- Transfer of responsibility shifting the work to those that have a natural and legitimate responsibility to carry it out

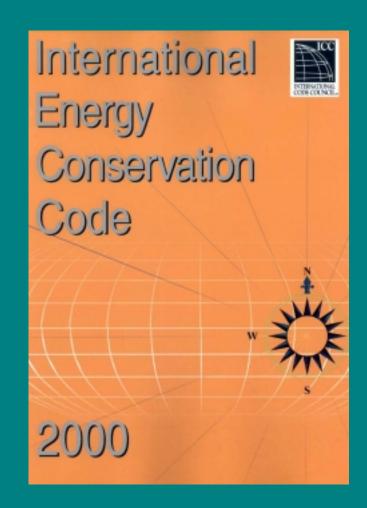
Misalignment

Building codes community often resists energy codes and alternatives due to a *perceived* lack of alignment with the purpose of codes.

Example of Misalignment: Energy Codes

Perception:

Energy codes have nothing to do with life safety and therefore are merely a complex, time-consuming, expensive source of continuing aggravation.



Potential Solution:

Define a context for viewing energy codes and alternatives as part of the central responsibility for protecting public safety, health, and welfare.

The Basic Premise

IF building codes and regulations are designed protect public from the built environment

BUT INSTEAD they inadvertently jeopardize the health, safety, and welfare of everyone by encouraging the destruction of the natural systems on which we depend for our survival

THEN we are *obligated* to reinvent our regulatory systems

It cannot be more important to protect individuals in and around specific buildings than all of us collectively on this planet.

A New Context for Codes

- Sphere of concern: those things which must be attended to in order to protect people from the built environment.
- Sphere of consequence: all the outcomes resulting from the actions taken in accordance with the sphere of concern.
- Sphere of responsibility: we are responsible for what happens as a result of what we require people to do.

Expand spheres of awareness and concern to encompass as much as possible of the larger spheres of consequence and responsibility.

The Work

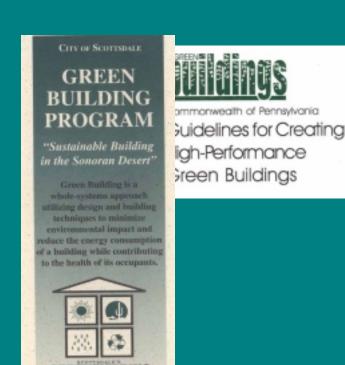
Provide a context that aligns purpose of codes with sustainability issues through:

- Education about the larger, negative impacts of buildings and building practices as well as about alternative approaches that minimize these impacts
- Training to enable change
- Development of partnerships, e.g. green building programs, ICBO, USGBC, etc.

Brief Overview of Green Building Programs

Green Building Programs: Organizational Frameworks

- Non-profits
- Municipal
- State
- Home Builders Association
- Utilities (energy guarantees)



Green Building Program Components

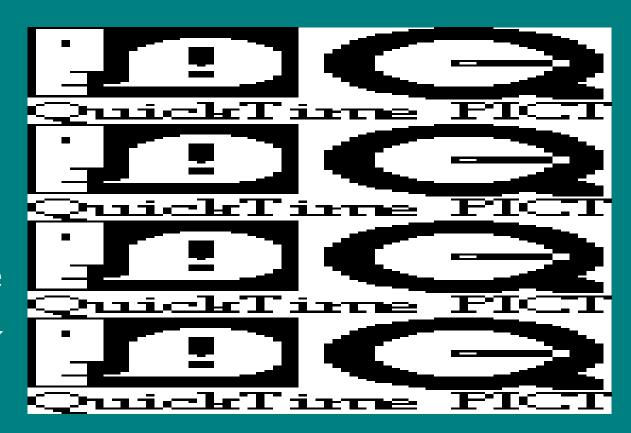


- Education
- Training
- Consulting
- Certification
 - Checklist
 - Multi- or single-level



Green Building Program Target Areas

- Energy
- Site design
- Materials
- Water
- Solid Waste
- Community
- Health



Benefits of Green Building Programs

- Market-based incentive
 - Meets demand
 - Creates demand
 - Additional marketing strategy
- Provide standards above minimum requirements of codes
- Defines and educates what makes a "green" building

Common Realities for Building Departments

Limitations

- Workloads and ordinary problems for conventional construction are typically demanding enough
- Limited or no time to be pro-active in addressing these challenges
- Added complexity usually just amplifies the problem

Continued...

Limitations, continued

- Inadequate information and training to be able to deal with alternatives in a positive way
- Limited funding and staff for training
- Limited positive feedback, support, or cooperation from the design and building sectors

Sources of resistance

- Risk: not only physical risk as from unsafe structures, but risk of future problems, risk of liability to jurisdiction, etc.
- Dealing with the unfamiliar or unknown increases both real and perceived risk
- Little incentive for building officials to take added risks
- Effort and resources are necessary to overcome these limitations

Alignment Through Relationship Between Green Building Programs and Building Departments

A Potential Solution: Services Provided by GBP

- Staff support within the building department for green projects
- Streamlined checklists and guidance for plan review and inspection for alternatives
- Information resources and training for both code officials and proponents of alternatives to facilitate the approval and inspection processes
- Green plan review

Relationship of GBPs and Building Departments

Green Building Program

Define limitations (staff, time, training)

Provide context for energy codes/alternatives

Provide services to overcome limitations

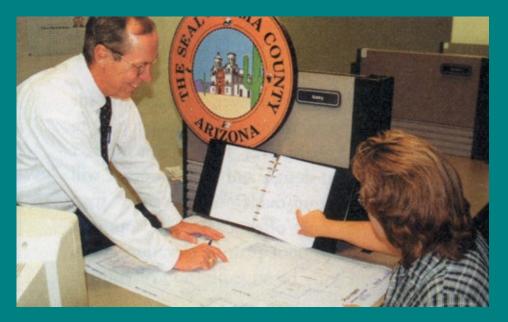
Building Department

Imagine

- •High-quality private plan review services for green buildings and high-performance designs
- •Expedited plan review for green projects as an incentive for builders to participate in green building programs
- •A building department member of the design team in integrated design projects, whereby all code compliance issues could be resolved and a permit issued as the final plans are submitted to the building department

Imagine

- •Building departments becoming real resource centers for communities rather than the "building police"
- •Building codes and building departments shifting their role from making sure that the wrong things don't happen to ensuring that the right things do there is a big difference!



Please remember to fill out our building codes survey at www.dcat.net

Thank You!

